

Disasters: A deadly and costly toll around the world, continued



Major Flooding Events and Damage Costs from 1990-1995			
Source: NOAA			
May 1990:	Trinity, Red and Arkansas rivers	13 dead	\$1.0 billion
June 1990:	Shadyside, Ohio flash floods	26 dead	\$?
Dec. 1991-Jan. 1992:			
	Trinity, Brazos, Colorado, Guadalupe rivers in Texas	13 dead	\$100 million
Jan. 1992:	Puerto Rico flash floods	23 dead	\$88 million
1993:	The Great Flood	48 dead	\$15-20 billion
July 1994:	Tropical Storm Alberto heavy rains and flooding, GA, AL, FL	33 dead	\$750 million
Oct. 1994:	Southeast Texas tropical rainfall and flood	18 dead	\$?
Jan. 1995:	Southern California floods	11 dead	\$1.34 billion
May 1995:	Fort Worth-Dallas storm, flash flood	16 dead	\$900 million
May 1995:	Southeast Louisiana and Southern Mississippi flood	7 dead	\$3 billion
Sept. 19-Oct. 2, 1995:			
	South Central Alaska floods	0 dead	\$10 million

Flooding Damage Costs 1990-1997	
Source: Office of Hydrology and U.S. Army Corps of Engineers	
FY 1990	\$1.6 billion
FY 1991	\$1.7 billion
FY 1992	\$760 million
FY 1993	\$16.37 billion
FY 1994	\$1.12 billion
FY 1995	\$5.1 billion
FY 1996	\$6.1 billion
FY 1997	\$1 billion
	(through 6-97)

Estimated Earthquake Losses 1987-1997		
Source: USGS		
1987	Nov. 24 Southern California	\$4 million
1989	Oct. 18 Northern California	\$5.6 billion
1990	Feb. 28 Southern California	\$12.7 million
1992	April 25 Northern California	\$66 million
1992	June 28 Southern California	\$92 million
1994	Jan. 17 Southern California	\$13-20 billion

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Top Ten Major Disasters Ranked by FEMA Relief Costs*

1987-1996

Source: FEMA

Northridge Earthquake (CA, 1994)	\$5.558 billion
Hurricane Andrew (FL, LA, 1992)	\$1.803 billion
Hurricane Hugo (NC, SC, PR, VI, 1989)	\$1.320 billion
Midwest Floods (IL,IA, KS, MN, MO, NE, ND, SD, WI, 1993)	\$1.144 billion
Loma Prieta Earthquake (CA, 1989)	\$836.8 million
Hurricane Marilyn (PR, VI, 1995)	\$542.5 million
Hurricane Fran (MD, NC, PA, SC, VA, WVA, 1996)	\$496.0 million
Tropical Storm Alberto (AL, FL, GA, 1994)	\$433.4 million
Winter storms (CA, 1995)	\$372.2 million
Mid-Atlantic/Northeast Floods (MD, ME, NY, OH, PA, VA, VT, WVA, 1996)	\$359.4 million

Figures do not include funding provided by other federal agencies or costs to insurance companies and individuals

**American Red Cross Disaster Relief History of Responses and Expenses
 1989-1996**

Source: American Red Cross

Year	Number of families assisted	Red Cross Expenses
89-90	229,278	\$224.2 million
90-91	104,447	\$184.4 million
91-92	168,674	\$187.8 million
92-93	209,180	\$248.2 million
93-94	122,508	\$220.9 million
94-95	124,929	\$233.3 million
95-96	125,120	\$216.5 million

The U.S. supports international efforts to raise awareness that natural risks can be managed:
 Federal Emergency Management Agency, American Red Cross, National Weather Service, U.S. Geological Survey, Department of Energy, Corporation for National Service, U.S. Army Corps of Engineers, Small Business Administration, National Aeronautics and Space Administration, Department of Transportation, Department of Education, National Interagency Fire Center



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Natural disasters kill one million people around the world each decade, and leave millions more homeless each year, according to the United Nation's International Decade for Natural Disaster Reduction. In addition, economic damages from natural disasters have tripled in the past 30 years — rising from \$40 billion in the 1960s to \$120 billion in the 1980s. In the past year, more than a dozen worldwide disasters have caused billion-dollar losses.

While numbers alone cannot tell the story of the heartache and anguish brought by natural disasters, they can give a concrete picture of the breadth of the damage, and serve as a significant argument for the need to focus on preparation and mitigation. These tables of damage costs provide a glimpse of the toll of natural disaster both in the United States and around the world.

Losses from natural disasters 1983-1994

Source: World Health Organization

Hurricane Alicia (USA, 1983)	\$1.65 billion
Winter storm Herta (Europe, 1990)	\$1.90 billion
Forest fire (USA, 1991)	\$2.00 billion
Winter storm Wiebke (Europe, 1990)	\$2.25 billion
Hurricane Iniki (Hawaii, 1992)	\$3.00 billion
Winter storm Vivian (Europe, 1990)	\$3.25 billion
Winter gale (Western Europe, 1987)	\$3.70 billion
Blizzard (USA, 1993)	\$5.00 billion
Typhoon Mireille (Japan, 1991)	\$6.00 billion
Winter storm Daria (Europe, 1990)	\$6.80 billion
Hurricane Hugo (USA, Caribbean, 1989)	\$9.00 billion
Floods (USA, 1993)	\$12.00 billion
Northridge Earthquake (USA, 1994)	\$30.00 billion
Hurricane Andrew (USA, 1991)	\$30.00 billion

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SBA Disaster Lending Activity*
1989-1995
Source: U.S. Small Business Administration

Event	Amount of loans	Number of loans
Hurricane Hugo (1989)	\$491 million	27,168
Loma Prieta Earthquake (1989)	\$584 million	15,473
Hurricane Andrew (1992)	\$696 million	25,992
Midwest Floods (1993)	\$626 million	19,993
Northridge Earthquake (1994)	\$4.1 billion	124,245
Tropical Storm Alberto (1994)	\$210 million	5,340
Hurricane Marilyn (1995)	\$222 million	8,459

*Disaster loans are made to homeowners, renters and businesses of all sizes

